v8.11.7.180
MicroStation

PILE RECORD FOR POINT BEARING PILES						
	Pile	Pile	Point of Pile	Design		
Pile	Cut-off	Length	Elevation	Axial		
No.	<b>Elevation</b>	In Place	As Driven	Load		
	FEET	FEET	FEET	TONS		
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						

## **Definitions of Terms**

PILE CUT-OFF ELEVATION: Elevation of the top of pile in the finished structure.

PILE LENGTH IN PLACE: Actual pile length below the Pile Cut-Off Elevation in the finished structure.

POINT OF PILE ELEVATION AS DRIVEN: Actual point of pile elevation in the finished structure.

DESIGN AXIAL LOAD: Load carried by each pile as estimated from structural design calculations for Factored LRFD Loadings.

CALCULATED FIELD BEARING: Contrary to Section 604.03.07 of the Standard Specifications, in place bearing values are not required for piles bearing on rock when driven to practical refusal.

## **Driving Criteria**

DRIVING CRITERIA: Drive point bearing piles to practical refusal.

PRACTICAL REFUSAL (Case I): Drive point bearing piles to practical refusal. For this project minimum blow requirements are reached after total penetration becomes  $\frac{1}{4}$  or less for 5 consecutive blows, practical refusal is obtained after the pile is struck an additional 5 blows with total penetration of  $\frac{1}{4}$  inch or less. Advance the production piling to the driving resistances specified above and to the depths determined by test pile(s) and subsurface data sheet(s). Immediately cease driving operations if the pile visibly yields or becomes damaged during driving. If hard driving is encountered because of dense strata or an obstruction, such as a boulder before the pile is advanced to the depth anticipated, the Engineer will determine if more blows than the average driving resistance specified for practical refusal is required to further advance the pile. Drive additional production and test piles if directed by the Engineer.

Use one of these, including notes on the hammer size provided by Geotech report.

PRACTICAL REFUSAL (Case 2): For this project minimum blow requirements are reached after total penetration becomes  $\frac{1}{2}$ " or less for 10 consecutive blows, practical refusal is obtained after the pile is struck an additional 10 blows with total penetration of  $\frac{1}{2}$ " or less. Advance the production piling to the driving resistances specifed above and to depths determined by test pile(s) and subsurface data sheet(s). Immediately cease driving operations if the pile visibly yields or becomes damaged during driving. If hard driving is encountered because of dense strata or an obstruction, such as a boulder before the pile is advanced to the depth anticipated, the Engineer will determine if more blows than the average driving resistance specified for practical refusal is required to further advance the pile. Drive additional production and test piles if directed by the Engineer.

## Field Data

For each pile, the Project Engineer shall record the following on this sheet: Pile Length in Place and Point of Pile Elevation as Driven.

Submit this record to:

Kentucky Transportation Cabinet
Director, Division of Structural Design
3rd Floor East
200 Mero Street
Frankfort, KY 40622

This pile record does not replace other pile records the Project Engineer is required to keep and submit.

Use HP 12x53 in accordance with BPS-003, c.e. Use HP 14x73 in accordance with BPS-009, c.e. Use HP 14x89 in accordance with BPS-011, c.e.

	REVISION		DATE
DATE:		CHECKED BY	
DESIGNED B	Y:		
DETAILED B	Y:		
DEF	PARTMENT (		ÝS
ROUTE		CROSSING	
•			
	PREPARED BY		SHEET NO.

ITEM NUMBER